

DERWENT PUBLICATIONS LTD.

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Anti-dandruff hair-treatment compsn - compg. zinc- or zirconium-pyrithione water-solubilized by combination of amine or polyalkyleneimine with a complex forming cpd			
Hair-treatment compsn. exerting anti-dandruff effect has a pH of 6.0 - 7.5 and contains a combination of (A) a cpd. having the formula (I):			
(I)	(in which M is Zn or Zr); (B) an aliphatic amine or polyalkylene- imine; and (C) a complex - forming cpd. having a CaCO ₃ - binding capacity larger than 230 mg per g (according to the Hampshire test); the combination of (A), (B) and (C) dissolving to give a clear soln.		
ADVANTAGE (I) dissolves in aq. solns having a pH of 6.0 - 7.5 (as in the case of most shampoos) only in the presence of (B) and (C). The combination is highly effective against dandruff.			
DETAILS (B) is pref. a polyethylenimine of m. wt. 600 - 60,000; it is used in an amt. of 0.5 - 20 wt.% (on the total compen). (A) is used in an amt. of 0.1 - 5 wt.%, and (C) in an amt. of 0.5 -			
D8-B3.			
20 wt.% (e.g. EDTA).			
EXAMPLE Anti - dandruff shampoo consists of (in wt.%) : sodium lauryl ether sulphate (Texapon EVR; RTM) 25.0; sodium lauryl ether sulphate (Texapon N40; RTM) 20.0; coconut fatty acid diethanol amide (Comperlan KD; RTM) 1.0; proteic hydrolysate (WSPX; RTM) 0.1; plant extract (Extrapon 5 special, RTM) 0.3; plant extract (Arkin; RTM) 1.0; 37% formaldehyde soln. 0.5; zirconiumpyrithione 1.5; polyethylene- imine (mol. wt. 1200) 3.0; EDTA 2.5; perfume oil 0.3; the balance being water. An acid or base may be added to adjust the pH to 6.0 - 7.5. (48818V).			

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E(5-A3A, 7-D-C, 12-A) 12-15) D(8-B3) E(5-G9D, 5-A3D, 6-
 A2F, 7-A1, 10-G2A, 10-E2) 4

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Amidantull hair composition contains bactericidal cap and e.g. isosammary, sesamol, lecithin, gamma-oryzanol, phytic acid, butyl hydroxy tosylate, citric acid etc.

Caseinatic material is precipitated by blending one of more species with bacteriocidal or antibacterial solution (e.g. zinc pyridone and one or more of rosemary, destinol, lecithin, gamma-oryzanol, phytic acid and its salts, phosphatidyl serine, phosphatidyl ethanolamine, ascorbic acid, butylglycerol, arginine, citric acid and its salts, lignanvitae, thiol, myricetin, maltene, erysorbic acid and its salts, ubiquinol, resins, nordihydroguaiaretic acid and its salts and propyl gallate, and vitamin C). The combination of the bacteriocidal lipids and the caseinatic components improved the safety and the antibacterial preservative effect (table).

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